

Claims

1. An electric lamp with a base at one end, in particular a high pressure discharge lamp, having an inner vessel (2, 3) with a vacuum-tight seal, said vessel being surrounded by an outer jacket (24), a base with electric connections supporting the inner vessel, on the one hand, and the outer jacket, on the other hand, characterized by the combination of the following features:
- a) the base has a base insulator (12) that is produced from an insulating material and has a central opening (11) with a surrounding collar (13; 63) in which the inner vessel is held without cement;
 - b) the base insulator has a fastening means for the outer jacket, in particular the means is a circular, radially projecting segment with an associated upper and lower plateau with reference to the base;
 - c) the outer jacket has an opening on the base side, there being located in the vicinity of the opening a means for fastening on the base insulator, in particular a radially projecting edge that has an upper and lower contact surface with reference to the base, the lower contact surface of the edge being compatible with the upper plateau of the circular, radially projecting segment on the base insulator; and
 - d) the outer jacket is fastened on the base by means of a cementless mechanical holding mechanism with the inclusion of the means from b) and c).
2. The lamp as claimed in claim 1, characterized in that the outer jacket is fastened on the base by virtue of the fact that a clamping part bridges the distance between the lower plateau of the base insulator and at least the upper contact surface of the edge, doing so in a holding fashion.
3. The lamp as claimed in claim 1, characterized in that the outer jacket is fastened on the base by virtue of the fact that

the outer jacket is fastened on the collar of the base insulator by means of a crimped connection, the base insulator having for this purpose radial bores or depressions that cooperate with dents on the outer jacket.

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4. The lamp as claimed in claim 1, characterized in that the inner vessel is a discharge vessel or an outer bulb in which a discharge vessel is accommodated.

10 5. The lamp as claimed in claim 1, characterized in that the inner vessel is held in the central opening of the base by means of a spring clip.

15 6. The lamp as claimed in claim 1, characterized in that the edge of the outer jacket and the projecting segment of the base insulator are equipped with means that cooperate as an antirotation mechanism.

20 7. The lamp as claimed in claim 6, characterized in that the antirotation mechanism is implemented by radially projecting noses on the base insulator and corresponding cutouts at the lower edge of the outer jacket.

25 8. The lamp as claimed in claim 6, characterized in that the antirotation mechanism is achieved by cutouts or bores in the upper part of the base insulator and beads in the region of the outer jacket at the base end.

30 9. The lamp as claimed in claim 2, characterized in that the clamping part comprises clamps distributed over the circumference, or a peripheral clamping strip.

35 10. The lamp as claimed in claim 9, characterized in that the clamping strip is a deformable ring, a multipartite ring joined by bonding, or a ring with resilient elements, or in that the clamps distributed over the circumference are deformable

elements joined by means of self-closure, material bonding or force closure, or resilient elements.

5 11. The lamp as claimed in claim 2, characterized in that a damping means is introduced between the clamping part and the upper contact surface of the edge of the outer jacket, or between the lower contact surface of the edge of the outer jacket and the upper plateau of the base insulator, or between the clamping part and lower plateau of the base insulator.

10 12. The lamp as claimed in claim 11, characterized in that the damping means is an O ring.

15 13. The lamp as claimed in claim 1, characterized in that supply leads that make electric contact with the electrical connections via clamping connections are led out of the inner vessel.

20 14. The lamp as claimed in claim 13, characterized in that the clamping connection is fitted on the supply lead such that the inner vessel is fixed in the base insulator.

25 15. The lamp as claimed in claim 1, characterized in that the base has a part that faces the socket and is connected at least partially to the base insulator by means of crimping.

16. The lamp as claimed in claim 1, characterized in that the outer jacket is a closed bulb, or has a reflector contour.

30 17. The lamp as claimed in claim 1, characterized in that the outer jacket is produced from glass or aluminum.